

Amendments of the Claims:

A detailed listing of all claims in the application is presented below. This listing of claims will replace all prior versions, and listings, of claims in the application. All claims being currently amended are submitted with markings to indicate the changes that have been made relative to immediate prior version of the claims. The changes in any amended claim are being shown by ~~striketrough~~ (for deleted matter) or underlined (for added matter).

1. (Currently amended): A system for collecting, storing, and reviewing data related to events occurring under the direction of an automated controller, comprising:
 - a) a digital signal capture card for sensing and collecting discrete digital signals as digital data;
 - b) a multi-port serial port expansion card for sensing and collecting serial digital communication messages as serial data;
 - c) a video frame grabber and compression card for sensing and collecting video signals as video data;
 - d) means for indexing and storing said digital data and video ~~signals~~ data;
 - e) means for relating occurrence of a particular item of a particular data type, whether digital, serial or video, to the most closely time-related data item from the other said data types; and
 - f) a display for control of said system and presentation of recorded data to a user during review.
2. (Original): The system of claim 1, wherein reviewed discrete digital data are presented in graphical strip chart format.
3. (Original): The system of claim 1, wherein reviewed video data are presented in picture format of still image or time-motion video images.

4. (Original): The system of claim 1, wherein reviewed serial communication data are presented in time-ordered message sequence.
5. (Original): The system of claim 1, wherein reviewed serial communication data are presented as recorded in hexadecimal or ASCII format.
6. (Original): The system of claim 1, wherein reviewed serial communication data are translated according to message parsing rules.
7. (Currently amended): A system for collecting, storing, and reviewing data related to events occurring under the direction of an automated controller, comprising a display for displaying said data, operatively connected to:
 - a) means for sensing and collecting discrete digital signals as digital data;
 - b) means for indexing and storing said digital signals;
 - c) means for sensing and collecting serial digital communication messages as serial data;
 - d) means for indexing and storing said serial messages;
 - e) means for sensing and collecting video signals as video data;
 - f) means for indexing and storing said video signals; and
 - h) means for relating occurrence of a particular item of a particular data type, whether digital, serial or video, to the most closely time-related data item from the other said data types, retrieving and displaying said time-related data items, according to data the type and data item directed by a user,wherein said display displays each data type, whether digital, serial or video, in a time-synchronized manner, and

wherein said user directs a displayed time of any individual data type, whether digital, serial or video, and the remaining two data types are automatically moved to a newly directed time.

8. (Original): The system of claim 7, wherein reviewed discrete digital data are presented in graphical strip chart format.
9. (Original): The system of claim 7, wherein reviewed video data are presented in picture format of still image or time-motion video images.
10. (Original): The system of claim 7, wherein reviewed serial communication data are presented in time-ordered message sequence.
11. (Original): The system of claim 7, wherein reviewed serial communication data are presented as recorded in hexadecimal or ASCII format.
12. (Original): The system of claim 7, wherein reviewed serial communication data are translated according to message parsing rules.
13. (Original): The system of claim 1, wherein one or more of said serial digital communication messages are transmitted via serial communication port and wherein said digital signals are asserted via a digital input/output card.
14. (Original): The system of claim 13, wherein recorded video is output for viewing.